

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Savannah

5102 LaRoche Avenue

Savannah, GA 31404

Tel: (912)354-7858

TestAmerica Job ID: 680-120839-1

Client Project/Site: GKM Treatment/Stabilization - Region 8

For:

Weston Solutions, Inc.

1435 Garrison Street

Suite 100

Lakewood, Colorado 80215

Attn: Moira Pryhoda



Authorized for release by:

1/14/2016 12:21:52 PM

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Method Summary

Client: Weston Solutions, Inc.

Project/Site: GKM Treatment/Stabilization - Region 8

TestAmerica Job ID: 680-120839-1

Method	Method Description	Protocol	Laboratory
200.7 Rev 4.4	Metals (ICP)	EPA	TAL SAV
200.8	Metals (ICP/MS)	EPA	TAL SAV
245.1	Mercury (CVAA)	EPA	TAL SAV

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Sample Summary

Client: Weston Solutions, Inc.

Project/Site: GKM Treatment/Stabilization - Region 8

TestAmerica Job ID: 680-120839-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-120839-1	GSTO-F_122315_1230 TOTALS	Water	12/23/15 12:30	01/13/16 09:43
680-120839-2	GKM-GSTO-F_01052016_1300 TOTALS	Water	01/05/16 13:00	01/13/16 09:43
680-120839-5	GSTO-C_122315_1300 TOTALS	Water	12/23/15 13:00	01/13/16 09:43
680-120839-7	GKM_GSTO-C_010516_1205 TOTALS	Water	01/05/16 12:05	01/13/16 09:43
680-120839-9	GSTI_122315_1415 TOTALS	Water	12/23/15 14:15	01/13/16 09:43
680-120839-10	GSTI_122315_1415 FILTERED	Water	12/23/15 14:15	01/13/16 09:43
680-120839-11	A72_010816_1230 TOTALS	Water	01/08/16 12:30	01/13/16 09:43
680-120839-12	A72_010816_1230 FILTERED	Water	01/08/16 12:30	01/13/16 09:43

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TestAmerica Savannah

Definitions/Glossary

Client: Weston Solutions, Inc.

Project/Site: GKM Treatment/Stabilization - Region 8

TestAmerica Job ID: 680-120839-1

Qualifiers

Metals

Qualifier	Qualifier Description
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.
F1	MS and/or MSD Recovery is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation

These commonly used abbreviations may or may not be present in this report.

□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Weston Solutions, Inc.

Project/Site: GKM Treatment/Stabilization - Region 8

TestAmerica Job ID: 680-120839-1

Job ID: 680-120839-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Weston Solutions, Inc.

Project: GKM Treatment/Stabilization - Region 8

Report Number: 680-120839-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In the event of interference or analytes present at high concentrations, samples may be diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

RECEIPT

The samples were received on 01/13/2016; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.0 C.

DISSOLVED METALS (ICP)

Samples GSTI_122315_1415 FILTERED (680-120839-10) and A72_010816_1230 FILTERED (680-120839-12) were analyzed for dissolved metals (ICP) in accordance with EPA Method 200.7. The samples were prepared and analyzed on 01/13/2016.

Potassium and Potassium, Dissolved failed the recovery criteria high for the MS of sample GSTI_122315_1415 FILTEREDMS (680-120839-10) in batch 680-418137.

Potassium and Potassium, Dissolved failed the recovery criteria high for the MSD of sample GSTI_122315_1415 FILTEREDMSD (680-120839-10) in batch 680-418137.

Calcium and Calcium, Dissolved failed the recovery criteria low for the MS of sample A72_010816_1230 FILTEREDMS (680-120839-12) in batch 680-418137.

Refer to the QC report for details.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL METALS (ICP)

Samples GSTO-F_122315_1230 TOTALS (680-120839-1), GKM-GSTO-F_01052016_1300 TOTALS (680-120839-2), GSTO-C_122315_1300 TOTALS (680-120839-5), GKM_GSTO-C_010516_1205 TOTALS (680-120839-7), GSTI_122315_1415 TOTALS (680-120839-9) and A72_010816_1230 TOTALS (680-120839-11) were analyzed for total metals (ICP) in accordance with EPA Method 200.7. The samples were prepared on 01/13/2016 and analyzed on 01/13/2016 and 01/14/2016.

Samples GSTO-F_122315_1230 TOTALS (680-120839-1)[10X] and GKM-GSTO-F_01052016_1300 TOTALS (680-120839-2)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

DISSOLVED METALS (ICPMS)

Samples GSTI_122315_1415 FILTERED (680-120839-10) and A72_010816_1230 FILTERED (680-120839-12) were analyzed for dissolved metals (ICPMS) in accordance with EPA Method 200.8. The samples were prepared and analyzed on 01/13/2016.

Copper, Dissolved, Manganese, Dissolved and Zinc, Dissolved failed the recovery criteria low for the MS of sample GSTI_122315_1415

Case Narrative

Client: Weston Solutions, Inc.

Project/Site: GKM Treatment/Stabilization - Region 8

TestAmerica Job ID: 680-120839-1

Job ID: 680-120839-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

FILTEREDMS (680-120839-10) in batch 680-418117.

Copper, Dissolved and Manganese, Dissolved failed the recovery criteria high for the MSD of sample GSTI_122315_1415 FILTEREDMSD (680-120839-10) in batch 680-418117.

Barium, Dissolved, Manganese, Dissolved and Zinc, Dissolved failed the recovery criteria low for the MS of sample A72_010816_1230 FILTEREDMS (680-120839-12) in batch 680-418117.

Barium, Dissolved, Manganese, Dissolved and Zinc, Dissolved failed the recovery criteria low for the MSD of sample A72_010816_1230 FILTEREDMSD (680-120839-12) in batch 680-418117.

The presence of the '4' qualifier indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount.

Refer to the QC report for details.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL METALS (ICPMS)

Samples GSTO-F_122315_1230 TOTALS (680-120839-1), GKM-GSTO-F_01052016_1300 TOTALS (680-120839-2), GSTO-C_122315_1300 TOTALS (680-120839-5), GKM_GSTO-C_010516_1205 TOTALS (680-120839-7), GSTI_122315_1415 TOTALS (680-120839-9) and A72_010816_1230 TOTALS (680-120839-11) were analyzed for total metals (ICPMS) in accordance with EPA Method 200.8. The samples were prepared on 01/13/2016 and analyzed on 01/13/2016 and 01/14/2016.

Samples GSTO-F_122315_1230 TOTALS (680-120839-1)[1000X] and GKM-GSTO-F_01052016_1300 TOTALS (680-120839-2)[1000X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

One or more of the following analytes recovered above the linear range of the calibration: cadmium, copper, manganese, and zinc. The data has been qualified as an estimated value and reported: GSTO-F_122315_1230 TOTALS (680-120839-1), GKM-GSTO-F_01052016_1300 TOTALS (680-120839-2), GSTO-C_122315_1300 TOTALS (680-120839-5), GKM_GSTO-C_010516_1205 TOTALS (680-120839-7), GSTI_122315_1415 TOTALS (680-120839-9), GSTI_122315_1415 FILTERED (680-120839-10), (680-120839-A-10-C MS), (680-120839-A-10-D MS), (680-120839-A-10-B PD) and (680-120839-A-10-B SD)

An internal standard (lithium) response outside the lower acceptance limits for the following sample:. Low internal standard recoveries could possibly bias the result for beryllium high. Data has been reported: GSTI_122315_1415 TOTALS (680-120839-9)

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

DISSOLVED MERCURY (CVAA)

Samples GSTI_122315_1415 FILTERED (680-120839-10) and A72_010816_1230 FILTERED (680-120839-12) were analyzed for dissolved mercury (CVAA) in accordance with EPA Method 245.1. The samples were prepared and analyzed on 01/13/2016.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL MERCURY

Samples GSTO-F_122315_1230 TOTALS (680-120839-1), GKM-GSTO-F_01052016_1300 TOTALS (680-120839-2), GSTO-C_122315_1300 TOTALS (680-120839-5), GKM_GSTO-C_010516_1205 TOTALS (680-120839-7), GSTI_122315_1415 TOTALS (680-120839-9) and A72_010816_1230 TOTALS (680-120839-11) were analyzed for total mercury in accordance with EPA Method 245.1. The samples were prepared and analyzed on 01/13/2016.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Client Sample Results

Client: Weston Solutions, Inc.

Project/Site: GKM Treatment/Stabilization - Region 8

TestAmerica Job ID: 680-120839-1

Client Sample ID: GSTO-F_122315_1230 TOTALS

Lab Sample ID: 680-120839-1

Date Collected: 12/23/15 12:30

Matrix: Water

Date Received: 01/13/16 09:43

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	62000		200	24	ug/L		01/13/16 12:46	01/13/16 17:43	1
Calcium	430000		5000	250	ug/L		01/13/16 12:46	01/14/16 09:57	10
Iron	250000		50	17	ug/L		01/13/16 12:46	01/13/16 17:43	1
Magnesium	22000		5000	330	ug/L		01/13/16 12:46	01/14/16 09:57	10
Potassium	2000		1000	17	ug/L		01/13/16 12:46	01/13/16 17:43	1
Sodium	4800	U	10000	4800	ug/L		01/13/16 12:46	01/14/16 09:57	10

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.4		1.0	0.40	ug/L		01/13/16 12:46	01/13/16 17:27	1
Arsenic	87		1.0	0.37	ug/L		01/13/16 12:46	01/13/16 17:27	1
Barium	16		2.0	0.14	ug/L		01/13/16 12:46	01/13/16 17:27	1
Beryllium	28		0.40	0.15	ug/L		01/13/16 12:46	01/13/16 17:27	1
Cadmium	160	E	0.50	0.043	ug/L		01/13/16 12:46	01/13/16 17:27	1
Chromium	12		2.0	1.0	ug/L		01/13/16 12:46	01/13/16 17:27	1
Cobalt	220		0.40	0.12	ug/L		01/13/16 12:46	01/13/16 17:27	1
Copper	14000	E	1.0	0.50	ug/L		01/13/16 12:46	01/13/16 17:27	1
Lead	86		0.30	0.060	ug/L		01/13/16 12:46	01/13/16 17:27	1
Manganese	55000		2500	1200	ug/L		01/13/16 12:46	01/14/16 09:21	1000
Molybdenum	8.9		1.0	0.45	ug/L		01/13/16 12:46	01/13/16 17:27	1
Nickel	130		1.0	0.40	ug/L		01/13/16 12:46	01/13/16 17:27	1
Selenium	7.6		2.0	0.58	ug/L		01/13/16 12:46	01/13/16 17:27	1
Silver	0.19	J	1.0	0.10	ug/L		01/13/16 12:46	01/13/16 17:27	1
Thallium	0.26		0.20	0.10	ug/L		01/13/16 12:46	01/13/16 17:27	1
Vanadium	65		1.0	0.30	ug/L		01/13/16 12:46	01/13/16 17:27	1
Zinc	72000		20000	2800	ug/L		01/13/16 12:46	01/14/16 09:21	1000

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.080	U	0.20	0.080	ug/L		01/13/16 12:08	01/13/16 16:27	1

Client Sample ID: GKM-GSTO-F_01052016_1300 TOTALS

Lab Sample ID: 680-120839-2

Matrix: Water

Date Collected: 01/05/16 13:00

Date Received: 01/13/16 09:43

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	92000		200	24	ug/L		01/13/16 12:46	01/13/16 17:48	1
Calcium	440000		5000	250	ug/L		01/13/16 12:46	01/14/16 10:02	10
Iron	360000		50	17	ug/L		01/13/16 12:46	01/13/16 17:48	1
Magnesium	29000		5000	330	ug/L		01/13/16 12:46	01/14/16 10:02	10
Potassium	2000		1000	17	ug/L		01/13/16 12:46	01/13/16 17:48	1
Sodium	4800	U	10000	4800	ug/L		01/13/16 12:46	01/14/16 10:02	10

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	5.7		1.0	0.40	ug/L		01/13/16 12:46	01/13/16 17:31	1
Arsenic	85		1.0	0.37	ug/L		01/13/16 12:46	01/13/16 17:31	1
Barium	20		2.0	0.14	ug/L		01/13/16 12:46	01/13/16 17:31	1
Beryllium	41		0.40	0.15	ug/L		01/13/16 12:46	01/13/16 17:31	1

TestAmerica Savannah

Client Sample Results

Client: Weston Solutions, Inc.

Project/Site: GKM Treatment/Stabilization - Region 8

TestAmerica Job ID: 680-120839-1

Client Sample ID: GKM-GSTO-F_01052016_1300 TOTALS

Lab Sample ID: 680-120839-2

Matrix: Water

Date Collected: 01/05/16 13:00

Date Received: 01/13/16 09:43

Method: 200.8 - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	240	E	0.50	0.043	ug/L		01/13/16 12:46	01/13/16 17:31	1
Chromium	14		2.0	1.0	ug/L		01/13/16 12:46	01/13/16 17:31	1
Cobalt	330		0.40	0.12	ug/L		01/13/16 12:46	01/13/16 17:31	1
Copper	23000	E	1.0	0.50	ug/L		01/13/16 12:46	01/13/16 17:31	1
Lead	100		0.30	0.060	ug/L		01/13/16 12:46	01/13/16 17:31	1
Manganese	78000		2500	1200	ug/L		01/13/16 12:46	01/14/16 09:25	1000
Molybdenum	8.5		1.0	0.45	ug/L		01/13/16 12:46	01/13/16 17:31	1
Nickel	190		1.0	0.40	ug/L		01/13/16 12:46	01/13/16 17:31	1
Selenium	11		2.0	0.58	ug/L		01/13/16 12:46	01/13/16 17:31	1
Silver	0.25	J	1.0	0.10	ug/L		01/13/16 12:46	01/13/16 17:31	1
Thallium	0.28		0.20	0.10	ug/L		01/13/16 12:46	01/13/16 17:31	1
Vanadium	81		1.0	0.30	ug/L		01/13/16 12:46	01/13/16 17:31	1
Zinc	110000		20000	2800	ug/L		01/13/16 12:46	01/14/16 09:25	1000

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.080	U	0.20	0.080	ug/L		01/13/16 12:08	01/13/16 16:36	1

Client Sample ID: GSTO-C_122315_1300 TOTALS

Lab Sample ID: 680-120839-5

Matrix: Water

Date Collected: 12/23/15 13:00

Date Received: 01/13/16 09:43

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	370		200	24	ug/L		01/13/16 12:46	01/13/16 18:11	1
Calcium	460000		500	25	ug/L		01/13/16 12:46	01/13/16 18:11	1
Iron	580		50	17	ug/L		01/13/16 12:46	01/13/16 18:11	1
Magnesium	17000		500	33	ug/L		01/13/16 12:46	01/13/16 18:11	1
Potassium	2100		1000	17	ug/L		01/13/16 12:46	01/13/16 18:11	1
Sodium	5600		1000	480	ug/L		01/13/16 12:46	01/13/16 18:11	1

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.40	U	1.0	0.40	ug/L		01/13/16 12:46	01/13/16 17:43	1
Arsenic	0.37	U	1.0	0.37	ug/L		01/13/16 12:46	01/13/16 17:43	1
Barium	7.9		2.0	0.14	ug/L		01/13/16 12:46	01/13/16 17:43	1
Beryllium	0.15	U	0.40	0.15	ug/L		01/13/16 12:46	01/13/16 17:43	1
Cadmium	4.5		0.50	0.043	ug/L		01/13/16 12:46	01/13/16 17:43	1
Chromium	1.0	U	2.0	1.0	ug/L		01/13/16 12:46	01/13/16 17:43	1
Cobalt	11		0.40	0.12	ug/L		01/13/16 12:46	01/13/16 17:43	1
Copper	26		1.0	0.50	ug/L		01/13/16 12:46	01/13/16 17:43	1
Lead	1.0		0.30	0.060	ug/L		01/13/16 12:46	01/13/16 17:43	1
Manganese	15000	E	2.5	1.2	ug/L		01/13/16 12:46	01/13/16 17:43	1
Molybdenum	1.5		1.0	0.45	ug/L		01/13/16 12:46	01/13/16 17:43	1
Nickel	20		1.0	0.40	ug/L		01/13/16 12:46	01/13/16 17:43	1
Selenium	0.58	U	2.0	0.58	ug/L		01/13/16 12:46	01/13/16 17:43	1
Silver	0.10	U	1.0	0.10	ug/L		01/13/16 12:46	01/13/16 17:43	1
Thallium	0.14	J	0.20	0.10	ug/L		01/13/16 12:46	01/13/16 17:43	1
Vanadium	0.30	U	1.0	0.30	ug/L		01/13/16 12:46	01/13/16 17:43	1
Zinc	240		20	2.8	ug/L		01/13/16 12:46	01/13/16 17:43	1

TestAmerica Savannah

Client Sample Results

Client: Weston Solutions, Inc.

Project/Site: GKM Treatment/Stabilization - Region 8

TestAmerica Job ID: 680-120839-1

Client Sample ID: GSTO-C_122315_1300 TOTALS

Lab Sample ID: 680-120839-5

Matrix: Water

Date Collected: 12/23/15 13:00

Date Received: 01/13/16 09:43

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.080	U	0.20	0.080	ug/L		01/13/16 12:08	01/13/16 16:46	1

Client Sample ID: GKM_GSTO-C_010516_1205 TOTALS

Lab Sample ID: 680-120839-7

Matrix: Water

Date Collected: 01/05/16 12:05

Date Received: 01/13/16 09:43

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	310		200	24	ug/L		01/13/16 12:46	01/13/16 18:20	1
Calcium	450000		500	25	ug/L		01/13/16 12:46	01/13/16 18:20	1
Iron	660		50	17	ug/L		01/13/16 12:46	01/13/16 18:20	1
Magnesium	17000		500	33	ug/L		01/13/16 12:46	01/13/16 18:20	1
Potassium	2100		1000	17	ug/L		01/13/16 12:46	01/13/16 18:20	1
Sodium	5500		1000	480	ug/L		01/13/16 12:46	01/13/16 18:20	1

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.40	U	1.0	0.40	ug/L		01/13/16 12:46	01/13/16 17:51	1
Arsenic	0.37	U	1.0	0.37	ug/L		01/13/16 12:46	01/13/16 17:51	1
Barium	8.2		2.0	0.14	ug/L		01/13/16 12:46	01/13/16 17:51	1
Beryllium	0.15	U	0.40	0.15	ug/L		01/13/16 12:46	01/13/16 17:51	1
Cadmium	4.8		0.50	0.043	ug/L		01/13/16 12:46	01/13/16 17:51	1
Chromium	1.0	U	2.0	1.0	ug/L		01/13/16 12:46	01/13/16 17:51	1
Cobalt	12		0.40	0.12	ug/L		01/13/16 12:46	01/13/16 17:51	1
Copper	35		1.0	0.50	ug/L		01/13/16 12:46	01/13/16 17:51	1
Lead	0.19	J	0.30	0.060	ug/L		01/13/16 12:46	01/13/16 17:51	1
Manganese	15000	E	2.5	1.2	ug/L		01/13/16 12:46	01/13/16 17:51	1
Molybdenum	1.4		1.0	0.45	ug/L		01/13/16 12:46	01/13/16 17:51	1
Nickel	19		1.0	0.40	ug/L		01/13/16 12:46	01/13/16 17:51	1
Selenium	0.58	U	2.0	0.58	ug/L		01/13/16 12:46	01/13/16 17:51	1
Silver	0.10	U	1.0	0.10	ug/L		01/13/16 12:46	01/13/16 17:51	1
Thallium	0.14	J	0.20	0.10	ug/L		01/13/16 12:46	01/13/16 17:51	1
Vanadium	0.30	U	1.0	0.30	ug/L		01/13/16 12:46	01/13/16 17:51	1
Zinc	270		20	2.8	ug/L		01/13/16 12:46	01/13/16 17:51	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.080	U	0.20	0.080	ug/L		01/13/16 12:08	01/13/16 16:58	1

Client Sample ID: GSTI_122315_1415 TOTALS

Lab Sample ID: 680-120839-9

Matrix: Water

Date Collected: 12/23/15 14:15

Date Received: 01/13/16 09:43

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	18000		200	24	ug/L		01/13/16 12:46	01/13/16 18:29	1
Calcium	370000		500	25	ug/L		01/13/16 12:46	01/13/16 18:29	1
Iron	74000		50	17	ug/L		01/13/16 12:46	01/13/16 18:29	1
Magnesium	19000		500	33	ug/L		01/13/16 12:46	01/13/16 18:29	1
Potassium	2100		1000	17	ug/L		01/13/16 12:46	01/13/16 18:29	1

TestAmerica Savannah

Client Sample Results

Client: Weston Solutions, Inc.

Project/Site: GKM Treatment/Stabilization - Region 8

TestAmerica Job ID: 680-120839-1

Client Sample ID: GSTI_122315_1415 TOTALS

Lab Sample ID: 680-120839-9

Matrix: Water

Date Collected: 12/23/15 14:15

Date Received: 01/13/16 09:43

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	2900		1000	480	ug/L		01/13/16 12:46	01/13/16 18:29	1

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.9		1.0	0.40	ug/L		01/13/16 12:46	01/13/16 17:59	1
Arsenic	23		1.0	0.37	ug/L		01/13/16 12:46	01/13/16 17:59	1
Barium	9.0		2.0	0.14	ug/L		01/13/16 12:46	01/13/16 17:59	1
Beryllium	6.9		0.40	0.15	ug/L		01/13/16 12:46	01/13/16 17:59	1
Cadmium	46		0.50	0.043	ug/L		01/13/16 12:46	01/13/16 17:59	1
Chromium	2.2		2.0	1.0	ug/L		01/13/16 12:46	01/13/16 17:59	1
Cobalt	67		0.40	0.12	ug/L		01/13/16 12:46	01/13/16 17:59	1
Copper	3600	E	1.0	0.50	ug/L		01/13/16 12:46	01/13/16 17:59	1
Lead	26		0.30	0.060	ug/L		01/13/16 12:46	01/13/16 17:59	1
Manganese	24000	E	2.5	1.2	ug/L		01/13/16 12:46	01/13/16 17:59	1
Molybdenum	3.4		1.0	0.45	ug/L		01/13/16 12:46	01/13/16 17:59	1
Nickel	46		1.0	0.40	ug/L		01/13/16 12:46	01/13/16 17:59	1
Selenium	2.1		2.0	0.58	ug/L		01/13/16 12:46	01/13/16 17:59	1
Silver	0.10	U	1.0	0.10	ug/L		01/13/16 12:46	01/13/16 17:59	1
Thallium	0.18	J	0.20	0.10	ug/L		01/13/16 12:46	01/13/16 17:59	1
Vanadium	17		1.0	0.30	ug/L		01/13/16 12:46	01/13/16 17:59	1
Zinc	14000	E	20	2.8	ug/L		01/13/16 12:46	01/13/16 17:59	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.080	U	0.20	0.080	ug/L		01/13/16 12:08	01/13/16 17:04	1

Client Sample ID: GSTI_122315_1415 FILTERED

Lab Sample ID: 680-120839-10

Matrix: Water

Date Collected: 12/23/15 14:15

Date Received: 01/13/16 09:43

Method: 200.7 Rev 4.4 - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum, Dissolved	12000		200	24	ug/L		01/13/16 12:46	01/13/16 18:38	1
Calcium, Dissolved	360000		500	25	ug/L		01/13/16 12:46	01/13/16 18:38	1
Iron, Dissolved	52000		50	17	ug/L		01/13/16 12:46	01/13/16 18:38	1
Magnesium, Dissolved	19000		500	33	ug/L		01/13/16 12:46	01/13/16 18:38	1
Potassium, Dissolved	2000	F1	1000	17	ug/L		01/13/16 12:46	01/13/16 18:38	1
Sodium, Dissolved	2900		1000	480	ug/L		01/13/16 12:46	01/13/16 18:38	1

Method: 200.8 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	0.40	U	1.0	0.40	ug/L		01/13/16 12:46	01/13/16 17:00	1
Arsenic, Dissolved	1.3		1.0	0.37	ug/L		01/13/16 12:46	01/13/16 17:00	1
Barium, Dissolved	9.1		2.0	0.14	ug/L		01/13/16 12:46	01/13/16 17:00	1
Beryllium, Dissolved	5.8		0.40	0.15	ug/L		01/13/16 12:46	01/13/16 17:00	1
Cadmium, Dissolved	49		0.50	0.043	ug/L		01/13/16 12:46	01/13/16 17:00	1
Chromium, Dissolved	1.0	U	2.0	1.0	ug/L		01/13/16 12:46	01/13/16 17:00	1
Cobalt, Dissolved	67		0.40	0.12	ug/L		01/13/16 12:46	01/13/16 17:00	1
Copper, Dissolved	3400		1.0	0.50	ug/L		01/13/16 12:46	01/13/16 17:00	1
Lead, Dissolved	2.9		0.30	0.060	ug/L		01/13/16 12:46	01/13/16 17:00	1

TestAmerica Savannah

Client Sample Results

Client: Weston Solutions, Inc.

Project/Site: GKM Treatment/Stabilization - Region 8

TestAmerica Job ID: 680-120839-1

Client Sample ID: GSTI_122315_1415 FILTERED

Lab Sample ID: 680-120839-10

Matrix: Water

Date Collected: 12/23/15 14:15

Date Received: 01/13/16 09:43

Method: 200.8 - Metals (ICP/MS) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese, Dissolved	24000	E	2.5	1.2	ug/L		01/13/16 12:46	01/13/16 17:00	1
Molybdenum, Dissolved	0.70	J	1.0	0.45	ug/L		01/13/16 12:46	01/13/16 17:00	1
Nickel, Dissolved	45		1.0	0.40	ug/L		01/13/16 12:46	01/13/16 17:00	1
Selenium, Dissolved	1.8	J	2.0	0.58	ug/L		01/13/16 12:46	01/13/16 17:00	1
Silver, Dissolved	0.10	U	1.0	0.10	ug/L		01/13/16 12:46	01/13/16 17:00	1
Thallium, Dissolved	0.18	J	0.20	0.10	ug/L		01/13/16 12:46	01/13/16 17:00	1
Vanadium, Dissolved	0.30	U	1.0	0.30	ug/L		01/13/16 12:46	01/13/16 17:00	1
Zinc, Dissolved	14000	E	20	2.8	ug/L		01/13/16 12:46	01/13/16 17:00	1

Method: 245.1 - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	0.080	U	0.20	0.080	ug/L		01/13/16 12:08	01/13/16 17:07	1

Client Sample ID: A72_010816_1230 TOTALS

Lab Sample ID: 680-120839-11

Matrix: Water

Date Collected: 01/08/16 12:30

Date Received: 01/13/16 09:43

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	3700		200	24	ug/L		01/13/16 12:46	01/13/16 18:34	1
Calcium	100000		500	25	ug/L		01/13/16 12:46	01/13/16 18:34	1
Iron	7300		50	17	ug/L		01/13/16 12:46	01/13/16 18:34	1
Magnesium	6800		500	33	ug/L		01/13/16 12:46	01/13/16 18:34	1
Potassium	1100		1000	17	ug/L		01/13/16 12:46	01/13/16 18:34	1
Sodium	3800		1000	480	ug/L		01/13/16 12:46	01/13/16 18:34	1

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.40	U	1.0	0.40	ug/L		01/13/16 12:46	01/13/16 18:02	1
Arsenic	2.1		1.0	0.37	ug/L		01/13/16 12:46	01/13/16 18:02	1
Barium	21		2.0	0.14	ug/L		01/13/16 12:46	01/13/16 18:02	1
Beryllium	0.52		0.40	0.15	ug/L		01/13/16 12:46	01/13/16 18:02	1
Cadmium	2.4		0.50	0.043	ug/L		01/13/16 12:46	01/13/16 18:02	1
Chromium	1.0	U	2.0	1.0	ug/L		01/13/16 12:46	01/13/16 18:02	1
Cobalt	10		0.40	0.12	ug/L		01/13/16 12:46	01/13/16 18:02	1
Copper	53		1.0	0.50	ug/L		01/13/16 12:46	01/13/16 18:02	1
Lead	9.3		0.30	0.060	ug/L		01/13/16 12:46	01/13/16 18:02	1
Manganese	2100		2.5	1.2	ug/L		01/13/16 12:46	01/13/16 18:02	1
Molybdenum	1.1		1.0	0.45	ug/L		01/13/16 12:46	01/13/16 18:02	1
Nickel	8.7		1.0	0.40	ug/L		01/13/16 12:46	01/13/16 18:02	1
Selenium	0.58	U	2.0	0.58	ug/L		01/13/16 12:46	01/13/16 18:02	1
Silver	0.10	U	1.0	0.10	ug/L		01/13/16 12:46	01/13/16 18:02	1
Thallium	0.10	U	0.20	0.10	ug/L		01/13/16 12:46	01/13/16 18:02	1
Vanadium	1.5		1.0	0.30	ug/L		01/13/16 12:46	01/13/16 18:02	1
Zinc	860		20	2.8	ug/L		01/13/16 12:46	01/13/16 18:02	1

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.080	U	0.20	0.080	ug/L		01/13/16 12:08	01/13/16 17:10	1

TestAmerica Savannah

Client Sample Results

Client: Weston Solutions, Inc.

Project/Site: GKM Treatment/Stabilization - Region 8

TestAmerica Job ID: 680-120839-1

Client Sample ID: A72_010816_1230 FILTERED

Lab Sample ID: 680-120839-12

Matrix: Water

Date Collected: 01/08/16 12:30

Date Received: 01/13/16 09:43

Method: 200.7 Rev 4.4 - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum, Dissolved	550		200	24	ug/L		01/13/16 12:46	01/13/16 19:01	1
Calcium, Dissolved	110000		500	25	ug/L		01/13/16 12:46	01/13/16 19:01	1
Iron, Dissolved	3200		50	17	ug/L		01/13/16 12:46	01/13/16 19:01	1
Magnesium, Dissolved	7000		500	33	ug/L		01/13/16 12:46	01/13/16 19:01	1
Potassium, Dissolved	1100		1000	17	ug/L		01/13/16 12:46	01/13/16 19:01	1
Sodium, Dissolved	4600		1000	480	ug/L		01/13/16 12:46	01/13/16 19:01	1

Method: 200.8 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	0.40	U	1.0	0.40	ug/L		01/13/16 12:46	01/13/16 18:14	1
Arsenic, Dissolved	0.37	U	1.0	0.37	ug/L		01/13/16 12:46	01/13/16 18:14	1
Barium, Dissolved	150	F1	2.0	0.14	ug/L		01/13/16 12:46	01/13/16 18:14	1
Beryllium, Dissolved	0.22	J	0.40	0.15	ug/L		01/13/16 12:46	01/13/16 18:14	1
Cadmium, Dissolved	2.6		0.50	0.043	ug/L		01/13/16 12:46	01/13/16 18:14	1
Chromium, Dissolved	1.0	U	2.0	1.0	ug/L		01/13/16 12:46	01/13/16 18:14	1
Cobalt, Dissolved	11		0.40	0.12	ug/L		01/13/16 12:46	01/13/16 18:14	1
Copper, Dissolved	26		1.0	0.50	ug/L		01/13/16 12:46	01/13/16 18:14	1
Lead, Dissolved	0.36		0.30	0.060	ug/L		01/13/16 12:46	01/13/16 18:14	1
Manganese, Dissolved	2400		2.5	1.2	ug/L		01/13/16 12:46	01/13/16 18:14	1
Molybdenum, Dissolved	0.45	U	1.0	0.45	ug/L		01/13/16 12:46	01/13/16 18:14	1
Nickel, Dissolved	9.7		1.0	0.40	ug/L		01/13/16 12:46	01/13/16 18:14	1
Selenium, Dissolved	0.58	U	2.0	0.58	ug/L		01/13/16 12:46	01/13/16 18:14	1
Silver, Dissolved	0.10	U	1.0	0.10	ug/L		01/13/16 12:46	01/13/16 18:14	1
Thallium, Dissolved	0.10	U	0.20	0.10	ug/L		01/13/16 12:46	01/13/16 18:14	1
Vanadium, Dissolved	0.30	U	1.0	0.30	ug/L		01/13/16 12:46	01/13/16 18:14	1
Zinc, Dissolved	990		20	2.8	ug/L		01/13/16 12:46	01/13/16 18:14	1

Method: 245.1 - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury, Dissolved	0.080	U	0.20	0.080	ug/L		01/13/16 12:08	01/13/16 17:19	1

TestAmerica Savannah

QC Sample Results

Client: Weston Solutions, Inc.

Project/Site: GKM Treatment/Stabilization - Region 8

TestAmerica Job ID: 680-120839-1

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 680-418001/1-A

Matrix: Water

Analysis Batch: 418137

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 418001

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Aluminum	24	U	200	24	ug/L	01/13/16 12:46	01/13/16 17:30		1
Aluminum, Dissolved	24	U	200	24	ug/L	01/13/16 12:46	01/13/16 17:30		1
Calcium	25	U	500	25	ug/L	01/13/16 12:46	01/13/16 17:30		1
Calcium, Dissolved	25	U	500	25	ug/L	01/13/16 12:46	01/13/16 17:30		1
Iron	17	U	50	17	ug/L	01/13/16 12:46	01/13/16 17:30		1
Iron, Dissolved	17	U	50	17	ug/L	01/13/16 12:46	01/13/16 17:30		1
Magnesium	33	U	500	33	ug/L	01/13/16 12:46	01/13/16 17:30		1
Magnesium, Dissolved	33	U	500	33	ug/L	01/13/16 12:46	01/13/16 17:30		1
Potassium	17	U	1000	17	ug/L	01/13/16 12:46	01/13/16 17:30		1
Potassium, Dissolved	17	U	1000	17	ug/L	01/13/16 12:46	01/13/16 17:30		1
Sodium	480	U	1000	480	ug/L	01/13/16 12:46	01/13/16 17:30		1
Sodium, Dissolved	480	U	1000	480	ug/L	01/13/16 12:46	01/13/16 17:30		1

Lab Sample ID: LCS 680-418001/2-A

Matrix: Water

Analysis Batch: 418137

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 418001

Analyte	Spike	LCS	LCS	%Rec.		
	Added	Result	Qualifier	Unit	D	%Rec
Aluminum	2000	2080		ug/L	104	85 - 115
Aluminum, Dissolved	2000	2080		ug/L	104	85 - 115
Calcium	2000	2080		ug/L	104	85 - 115
Calcium, Dissolved	2000	2080		ug/L	104	85 - 115
Iron	2000	2130		ug/L	106	85 - 115
Iron, Dissolved	2000	2130		ug/L	106	85 - 115
Magnesium	2000	2080		ug/L	104	85 - 115
Magnesium, Dissolved	2000	2080		ug/L	104	85 - 115
Potassium	2000	2190		ug/L	110	85 - 115
Potassium, Dissolved	2000	2190		ug/L	110	85 - 115
Sodium	2000	1970		ug/L	98	85 - 115
Sodium, Dissolved	2000	1970		ug/L	98	85 - 115

Lab Sample ID: 680-120839-10 MS

Matrix: Water

Analysis Batch: 418137

Client Sample ID: GSTI_122315_1415 FILTERED

Prep Type: Dissolved

Prep Batch: 418001

Analyte	Sample	Sample	Spike	MS	MS	%Rec.		
	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec
Aluminum	12000		2000	13900	4	ug/L	110	75 - 125
Aluminum, Dissolved	12000		2000	13900	4	ug/L	110	75 - 125
Calcium	360000		2000	365000	4	ug/L	79	75 - 125
Calcium, Dissolved	360000		2000	365000	4	ug/L	79	75 - 125
Iron	52000		2000	54200	4	ug/L	101	75 - 125
Iron, Dissolved	52000		2000	54200	4	ug/L	101	75 - 125
Magnesium	19000		2000	21000	4	ug/L	103	75 - 125
Magnesium, Dissolved	19000		2000	21000	4	ug/L	103	75 - 125
Potassium	2000	F1	2000	4640	F1	ug/L	131	75 - 125
Potassium, Dissolved	2000	F1	2000	4640	F1	ug/L	131	75 - 125
Sodium	2900		2000	5340		ug/L	124	75 - 125
Sodium, Dissolved	2900		2000	5340		ug/L	124	75 - 125

TestAmerica Savannah

QC Sample Results

Client: Weston Solutions, Inc.

Project/Site: GKM Treatment/Stabilization - Region 8

TestAmerica Job ID: 680-120839-1

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: 680-120839-10 MSD

Matrix: Water

Analysis Batch: 418137

Client Sample ID: GSTI_122315_1415 FILTERED

Prep Type: Dissolved

Prep Batch: 418001

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD		Unit	D	%Rec	%Rec.		RPD	Limit
				Result	Qualifier				Limits	RPD		
Aluminum	12000		2000	13900	4	ug/L		107	75 - 125	0	20	
Aluminum, Dissolved	12000		2000	13900	4	ug/L		107	75 - 125	0	20	
Calcium	360000		2000	366000	4	ug/L		98	75 - 125	0	20	
Calcium, Dissolved	360000		2000	366000	4	ug/L		98	75 - 125	0	20	
Iron	52000		2000	54100	4	ug/L		97	75 - 125	0	20	
Iron, Dissolved	52000		2000	54100	4	ug/L		97	75 - 125	0	20	
Magnesium	19000		2000	21000	4	ug/L		100	75 - 125	0	20	
Magnesium, Dissolved	19000		2000	21000	4	ug/L		100	75 - 125	0	20	
Potassium	2000	F1	2000	4610	F1	ug/L		129	75 - 125	1	20	
Potassium, Dissolved	2000	F1	2000	4610	F1	ug/L		129	75 - 125	1	20	
Sodium	2900		2000	5190		ug/L		116	75 - 125	3	20	
Sodium, Dissolved	2900		2000	5190		ug/L		116	75 - 125	3	20	

Lab Sample ID: 680-120839-12 MS

Matrix: Water

Analysis Batch: 418137

Client Sample ID: A72_010816_1230 FILTERED

Prep Type: Dissolved

Prep Batch: 418001

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	%Rec	%Rec.		RPD	Limit
				Result	Qualifier				Limits	RPD		
Aluminum	550		2000	2710		ug/L		108	75 - 125			
Aluminum, Dissolved	550		2000	2710		ug/L		108	75 - 125			
Calcium	110000		2000	108000	4	ug/L		63	75 - 125			
Calcium, Dissolved	110000		2000	108000	4	ug/L		63	75 - 125			
Iron	3200		2000	5310		ug/L		106	75 - 125			
Iron, Dissolved	3200		2000	5310		ug/L		106	75 - 125			
Magnesium	7000		2000	9140		ug/L		106	75 - 125			
Magnesium, Dissolved	7000		2000	9140		ug/L		106	75 - 125			
Potassium	1100		2000	3420		ug/L		118	75 - 125			
Potassium, Dissolved	1100		2000	3420		ug/L		118	75 - 125			
Sodium	4600		2000	6860		ug/L		111	75 - 125			
Sodium, Dissolved	4600		2000	6860		ug/L		111	75 - 125			

Lab Sample ID: 680-120839-12 MSD

Matrix: Water

Analysis Batch: 418137

Client Sample ID: A72_010816_1230 FILTERED

Prep Type: Dissolved

Prep Batch: 418001

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD		Unit	D	%Rec	%Rec.		RPD	Limit
				Result	Qualifier				Limits	RPD		
Aluminum	550		2000	2710		ug/L		108	75 - 125	0	20	
Aluminum, Dissolved	550		2000	2710		ug/L		108	75 - 125	0	20	
Calcium	110000		2000	109000	4	ug/L		108	75 - 125	1	20	
Calcium, Dissolved	110000		2000	109000	4	ug/L		108	75 - 125	1	20	
Iron	3200		2000	5300		ug/L		106	75 - 125	0	20	
Iron, Dissolved	3200		2000	5300		ug/L		106	75 - 125	0	20	
Magnesium	7000		2000	9170		ug/L		108	75 - 125	0	20	
Magnesium, Dissolved	7000		2000	9170		ug/L		108	75 - 125	0	20	
Potassium	1100		2000	3440		ug/L		119	75 - 125	0	20	
Potassium, Dissolved	1100		2000	3440		ug/L		119	75 - 125	0	20	
Sodium	4600		2000	7050		ug/L		120	75 - 125	3	20	
Sodium, Dissolved	4600		2000	7050		ug/L		120	75 - 125	3	20	

TestAmerica Savannah

QC Sample Results

Client: Weston Solutions, Inc.

Project/Site: GKM Treatment/Stabilization - Region 8

TestAmerica Job ID: 680-120839-1

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 680-418000/1-A

Matrix: Water

Analysis Batch: 418117

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 418000

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	0.40	U	1.0	0.40	ug/L	01/13/16 12:46	01/13/16 16:49	1	1
Antimony, Dissolved	0.40	U	1.0	0.40	ug/L	01/13/16 12:46	01/13/16 16:49	1	1
Arsenic	0.37	U	1.0	0.37	ug/L	01/13/16 12:46	01/13/16 16:49	1	1
Arsenic, Dissolved	0.37	U	1.0	0.37	ug/L	01/13/16 12:46	01/13/16 16:49	1	1
Barium	0.14	U	2.0	0.14	ug/L	01/13/16 12:46	01/13/16 16:49	1	1
Barium, Dissolved	0.14	U	2.0	0.14	ug/L	01/13/16 12:46	01/13/16 16:49	1	1
Beryllium	0.15	U	0.40	0.15	ug/L	01/13/16 12:46	01/13/16 16:49	1	1
Beryllium, Dissolved	0.15	U	0.40	0.15	ug/L	01/13/16 12:46	01/13/16 16:49	1	1
Cadmium	0.043	U	0.50	0.043	ug/L	01/13/16 12:46	01/13/16 16:49	1	1
Cadmium, Dissolved	0.043	U	0.50	0.043	ug/L	01/13/16 12:46	01/13/16 16:49	1	1
Chromium	1.0	U	2.0	1.0	ug/L	01/13/16 12:46	01/13/16 16:49	1	1
Chromium, Dissolved	1.0	U	2.0	1.0	ug/L	01/13/16 12:46	01/13/16 16:49	1	1
Cobalt	0.12	U	0.40	0.12	ug/L	01/13/16 12:46	01/13/16 16:49	1	1
Cobalt, Dissolved	0.12	U	0.40	0.12	ug/L	01/13/16 12:46	01/13/16 16:49	1	1
Copper	0.50	U	1.0	0.50	ug/L	01/13/16 12:46	01/13/16 16:49	1	1
Copper, Dissolved	0.50	U	1.0	0.50	ug/L	01/13/16 12:46	01/13/16 16:49	1	1
Lead	0.060	U	0.30	0.060	ug/L	01/13/16 12:46	01/13/16 16:49	1	1
Lead, Dissolved	0.060	U	0.30	0.060	ug/L	01/13/16 12:46	01/13/16 16:49	1	1
Manganese	1.2	U	2.5	1.2	ug/L	01/13/16 12:46	01/13/16 16:49	1	1
Manganese, Dissolved	1.2	U	2.5	1.2	ug/L	01/13/16 12:46	01/13/16 16:49	1	1
Molybdenum	0.45	U	1.0	0.45	ug/L	01/13/16 12:46	01/13/16 16:49	1	1
Molybdenum, Dissolved	0.45	U	1.0	0.45	ug/L	01/13/16 12:46	01/13/16 16:49	1	1
Nickel	0.40	U	1.0	0.40	ug/L	01/13/16 12:46	01/13/16 16:49	1	1
Nickel, Dissolved	0.40	U	1.0	0.40	ug/L	01/13/16 12:46	01/13/16 16:49	1	1
Selenium	0.58	U	2.0	0.58	ug/L	01/13/16 12:46	01/13/16 16:49	1	1
Selenium, Dissolved	0.58	U	2.0	0.58	ug/L	01/13/16 12:46	01/13/16 16:49	1	1
Silver	0.10	U	1.0	0.10	ug/L	01/13/16 12:46	01/13/16 16:49	1	1
Silver, Dissolved	0.10	U	1.0	0.10	ug/L	01/13/16 12:46	01/13/16 16:49	1	1
Thallium	0.10	U	0.20	0.10	ug/L	01/13/16 12:46	01/13/16 16:49	1	1
Thallium, Dissolved	0.10	U	0.20	0.10	ug/L	01/13/16 12:46	01/13/16 16:49	1	1
Vanadium	0.30	U	1.0	0.30	ug/L	01/13/16 12:46	01/13/16 16:49	1	1
Vanadium, Dissolved	0.30	U	1.0	0.30	ug/L	01/13/16 12:46	01/13/16 16:49	1	1
Zinc	2.8	U	20	2.8	ug/L	01/13/16 12:46	01/13/16 16:49	1	1
Zinc, Dissolved	2.8	U	20	2.8	ug/L	01/13/16 12:46	01/13/16 16:49	1	1

Lab Sample ID: LCS 680-418000/2-A

Matrix: Water

Analysis Batch: 418117

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 418000

Analyte	Spike	LCS	LCS	%Rec.			Limits
	Added	Result	Qualifier	Unit	D	%Rec	
Antimony	20.0	21.7		ug/L	108	85 - 115	
Antimony, Dissolved	20.0	21.7		ug/L	108	85 - 115	
Arsenic	40.0	43.6		ug/L	109	85 - 115	
Arsenic, Dissolved	40.0	43.6		ug/L	109	85 - 115	
Barium	40.0	42.2		ug/L	105	85 - 115	
Barium, Dissolved	40.0	42.2		ug/L	105	85 - 115	
Beryllium	20.0	21.6		ug/L	108	85 - 115	
Beryllium, Dissolved	20.0	21.6		ug/L	108	85 - 115	

TestAmerica Savannah

QC Sample Results

Client: Weston Solutions, Inc.

Project/Site: GKM Treatment/Stabilization - Region 8

TestAmerica Job ID: 680-120839-1

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 680-418000/2-A

Matrix: Water

Analysis Batch: 418117

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 418000

%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Cadmium	20.0	21.6		ug/L	108	85 - 115	
Cadmium, Dissolved	20.0	21.6		ug/L	108	85 - 115	
Chromium	40.0	42.8		ug/L	107	85 - 115	
Chromium, Dissolved	40.0	42.8		ug/L	107	85 - 115	
Cobalt	20.0	21.5		ug/L	107	85 - 115	
Cobalt, Dissolved	20.0	21.5		ug/L	107	85 - 115	
Copper	40.0	41.7		ug/L	104	85 - 115	
Copper, Dissolved	40.0	41.7		ug/L	104	85 - 115	
Lead	200	214		ug/L	107	85 - 115	
Lead, Dissolved	200	214		ug/L	107	85 - 115	
Manganese	200	219		ug/L	110	85 - 115	
Manganese, Dissolved	200	219		ug/L	110	85 - 115	
Molybdenum	40.0	40.9		ug/L	102	85 - 115	
Molybdenum, Dissolved	40.0	40.9		ug/L	102	85 - 115	
Nickel	40.0	43.6		ug/L	109	85 - 115	
Nickel, Dissolved	40.0	43.6		ug/L	109	85 - 115	
Selenium	40.0	44.6		ug/L	111	85 - 115	
Selenium, Dissolved	40.0	44.6		ug/L	111	85 - 115	
Silver	20.0	22.2		ug/L	111	85 - 115	
Silver, Dissolved	20.0	22.2		ug/L	111	85 - 115	
Thallium	16.0	16.7		ug/L	104	85 - 115	
Thallium, Dissolved	16.0	16.7		ug/L	104	85 - 115	
Vanadium	40.0	43.0		ug/L	108	85 - 115	
Vanadium, Dissolved	40.0	43.0		ug/L	108	85 - 115	
Zinc	40.0	45.6		ug/L	114	85 - 115	
Zinc, Dissolved	40.0	45.6		ug/L	114	85 - 115	

Lab Sample ID: 680-120839-10 MS

Matrix: Water

Analysis Batch: 418117

Client Sample ID: GSTI_122315_1415 FILTERED

Prep Type: Dissolved

Prep Batch: 418000

%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony, Dissolved	0.40	U	20.0	20.2		ug/L	101	70 - 130	
Arsenic, Dissolved	1.3		40.0	42.9		ug/L	104	70 - 130	
Barium, Dissolved	9.1		40.0	47.6		ug/L	96	70 - 130	
Beryllium, Dissolved	5.8		20.0	25.3		ug/L	98	70 - 130	
Cadmium, Dissolved	49		20.0	66.0		ug/L	84	70 - 130	
Chromium, Dissolved	1.0	U	40.0	37.4		ug/L	93	70 - 130	
Cobalt, Dissolved	67		20.0	82.8		ug/L	79	70 - 130	
Copper, Dissolved	3400		40.0	3280	4	ug/L	-327	70 - 130	
Lead, Dissolved	2.9		200	185		ug/L	91	70 - 130	
Manganese, Dissolved	24000	E	200	23600	E 4	ug/L	-422	70 - 130	
Molybdenum, Dissolved	0.70	J	40.0	41.1		ug/L	101	70 - 130	
Nickel, Dissolved	45		40.0	79.4		ug/L	86	70 - 130	
Selenium, Dissolved	1.8	J	40.0	46.0		ug/L	111	70 - 130	
Silver, Dissolved	0.10	U	20.0	18.9		ug/L	94	70 - 130	
Thallium, Dissolved	0.18	J	16.0	14.8		ug/L	92	70 - 130	
Vanadium, Dissolved	0.30	U	40.0	39.3		ug/L	98	70 - 130	

TestAmerica Savannah

QC Sample Results

Client: Weston Solutions, Inc.

Project/Site: GKM Treatment/Stabilization - Region 8

TestAmerica Job ID: 680-120839-1

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: 680-120839-10 MS

Matrix: Water

Analysis Batch: 418117

Client Sample ID: GSTI_122315_1415 FILTERED

Prep Type: Dissolved

Prep Batch: 418000

%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec.	Limits
Zinc, Dissolved	14000	E	40.0	13800	E 4	ug/L	-1334	70 - 130	

Lab Sample ID: 680-120839-10 MSD

Matrix: Water

Analysis Batch: 418117

Client Sample ID: GSTI_122315_1415 FILTERED

Prep Type: Dissolved

Prep Batch: 418000

%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec.	RPD	Limit
Antimony, Dissolved	0.40	U	20.0	21.7		ug/L	109	70 - 130	7	20
Arsenic, Dissolved	1.3		40.0	45.9		ug/L	111	70 - 130	7	20
Barium, Dissolved	9.1		40.0	51.0		ug/L	105	70 - 130	7	20
Beryllium, Dissolved	5.8		20.0	26.8		ug/L	105	70 - 130	6	20
Cadmium, Dissolved	49		20.0	71.1		ug/L	110	70 - 130	7	20
Chromium, Dissolved	1.0	U	40.0	40.7		ug/L	102	70 - 130	8	20
Cobalt, Dissolved	67		20.0	90.0		ug/L	115	70 - 130	8	20
Copper, Dissolved	3400		40.0	3530	4	ug/L	311	70 - 130	7	20
Lead, Dissolved	2.9		200	198		ug/L	98	70 - 130	7	20
Manganese, Dissolved	24000	E	200	25700	E 4	ug/L	637	70 - 130	9	20
Molybdenum, Dissolved	0.70	J	40.0	44.0		ug/L	108	70 - 130	7	20
Nickel, Dissolved	45		40.0	87.1		ug/L	105	70 - 130	9	20
Selenium, Dissolved	1.8	J	40.0	48.9		ug/L	118	70 - 130	6	20
Silver, Dissolved	0.10	U	20.0	20.0		ug/L	100	70 - 130	6	20
Thallium, Dissolved	0.18	J	16.0	16.1		ug/L	100	70 - 130	8	20
Vanadium, Dissolved	0.30	U	40.0	42.8		ug/L	107	70 - 130	8	20

Lab Sample ID: 680-120839-12 MS

Matrix: Water

Analysis Batch: 418117

Client Sample ID: A72_010816_1230 FILTERED

Prep Type: Dissolved

Prep Batch: 418000

%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec.	Limits
Antimony, Dissolved	0.40	U	20.0	20.5		ug/L	102	70 - 130	
Arsenic, Dissolved	0.37	U	40.0	41.0		ug/L	103	70 - 130	
Barium, Dissolved	150	F1	40.0	166	F1	ug/L	47	70 - 130	
Beryllium, Dissolved	0.22	J	20.0	19.3		ug/L	96	70 - 130	
Cadmium, Dissolved	2.6		20.0	22.0		ug/L	97	70 - 130	
Chromium, Dissolved	1.0	U	40.0	39.0		ug/L	97	70 - 130	
Cobalt, Dissolved	11		20.0	29.1		ug/L	90	70 - 130	
Copper, Dissolved	26		40.0	58.2		ug/L	80	70 - 130	
Lead, Dissolved	0.36		200	198		ug/L	99	70 - 130	
Manganese, Dissolved	2400		200	2310	4	ug/L	-68	70 - 130	
Molybdenum, Dissolved	0.45	U	40.0	39.4		ug/L	99	70 - 130	
Nickel, Dissolved	9.7		40.0	47.6		ug/L	95	70 - 130	
Selenium, Dissolved	0.58	U	40.0	41.4		ug/L	104	70 - 130	
Silver, Dissolved	0.10	U	20.0	19.7		ug/L	98	70 - 130	
Thallium, Dissolved	0.10	U	16.0	15.7		ug/L	98	70 - 130	
Vanadium, Dissolved	0.30	U	40.0	40.6		ug/L	101	70 - 130	
Zinc, Dissolved	990		40.0	897	4	ug/L	-243	70 - 130	

TestAmerica Savannah

QC Sample Results

Client: Weston Solutions, Inc.

Project/Site: GKM Treatment/Stabilization - Region 8

TestAmerica Job ID: 680-120839-1

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: 680-120839-12 MSD

Matrix: Water

Analysis Batch: 418117

Client Sample ID: A72_010816_1230 FILTERED

Prep Type: Dissolved

Prep Batch: 418000

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier							
Antimony, Dissolved	0.40	U	20.0	20.6		ug/L		103	70 - 130	0	20	
Arsenic, Dissolved	0.37	U	40.0	41.8		ug/L		105	70 - 130	2	20	
Barium, Dissolved	150	F1	40.0	171	F1	ug/L		59	70 - 130	3	20	
Beryllium, Dissolved	0.22	J	20.0	19.7		ug/L		98	70 - 130	2	20	
Cadmium, Dissolved	2.6		20.0	22.0		ug/L		97	70 - 130	0	20	
Chromium, Dissolved	1.0	U	40.0	40.0		ug/L		100	70 - 130	3	20	
Cobalt, Dissolved	11		20.0	29.9		ug/L		94	70 - 130	3	20	
Copper, Dissolved	26		40.0	59.2		ug/L		83	70 - 130	2	20	
Lead, Dissolved	0.36		200	199		ug/L		99	70 - 130	1	20	
Manganese, Dissolved	2400		200	2360	4	ug/L		-43	70 - 130	2	20	
Molybdenum, Dissolved	0.45	U	40.0	39.3		ug/L		98	70 - 130	0	20	
Nickel, Dissolved	9.7		40.0	48.2		ug/L		96	70 - 130	1	20	
Selenium, Dissolved	0.58	U	40.0	42.7		ug/L		107	70 - 130	3	20	
Silver, Dissolved	0.10	U	20.0	19.4		ug/L		97	70 - 130	1	20	
Thallium, Dissolved	0.10	U	16.0	16.0		ug/L		100	70 - 130	2	20	
Vanadium, Dissolved	0.30	U	40.0	41.0		ug/L		103	70 - 130	1	20	
Zinc, Dissolved	990		40.0	913	4	ug/L		-202	70 - 130	2	20	

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 680-417991/13-A

Matrix: Water

Analysis Batch: 418119

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 417991

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	0.080	U	0.20	0.080	ug/L		01/13/16 12:08	01/13/16 16:18	1
Mercury, Dissolved	0.080	U	0.20	0.080	ug/L		01/13/16 12:08	01/13/16 16:18	1

Lab Sample ID: LCS 680-417991/15-A

Matrix: Water

Analysis Batch: 418119

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 417991

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.
	Added	Result	Qualifier				
Mercury	2.50	2.47		ug/L		99	85 - 115
Mercury, Dissolved	2.50	2.47		ug/L		99	85 - 115

Lab Sample ID: 680-120839-1 MS

Matrix: Water

Analysis Batch: 418119

Client Sample ID: GSTO-F_122315_1230 TOTALS

Prep Type: Total/NA

Prep Batch: 417991

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier				
Mercury	0.080	U	1.00	0.980		ug/L		98	70 - 130
Mercury, Dissolved	0.080	U	1.00	0.980		ug/L		98	70 - 130

TestAmerica Savannah

QC Sample Results

Client: Weston Solutions, Inc.

Project/Site: GKM Treatment/Stabilization - Region 8

TestAmerica Job ID: 680-120839-1

Method: 245.1 - Mercury (CVAA) (Continued)

Lab Sample ID: 680-120839-1 MSD

Matrix: Water

Analysis Batch: 418119

Client Sample ID: GSTO-F_122315_1230 TOTALS

Prep Type: Total/NA

Prep Batch: 417991

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.080	U	1.00	0.966		ug/L		97	70 - 130	1	20
Mercury, Dissolved	0.080	U	1.00	0.966		ug/L		97	70 - 130	1	20

Lab Sample ID: 680-120839-11 MS

Matrix: Water

Analysis Batch: 418119

Client Sample ID: A72_010816_1230 TOTALS

Prep Type: Total/NA

Prep Batch: 417991

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.080	U	1.00	0.960		ug/L		96	70 - 130
Mercury, Dissolved	0.080	U	1.00	0.960		ug/L		96	70 - 130

Lab Sample ID: 680-120839-11 MSD

Matrix: Water

Analysis Batch: 418119

Client Sample ID: A72_010816_1230 TOTALS

Prep Type: Total/NA

Prep Batch: 417991

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.080	U	1.00	0.978		ug/L		98	70 - 130	2	20
Mercury, Dissolved	0.080	U	1.00	0.978		ug/L		98	70 - 130	2	20

QC Association Summary

Client: Weston Solutions, Inc.

Project/Site: GKM Treatment/Stabilization - Region 8

TestAmerica Job ID: 680-120839-1

Metals

Prep Batch: 417991

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-120839-1	GSTO-F_122315_1230 TOTALS	Total/NA	Water	245.1	1
680-120839-1 MS	GSTO-F_122315_1230 TOTALS	Total/NA	Water	245.1	2
680-120839-1 MSD	GSTO-F_122315_1230 TOTALS	Total/NA	Water	245.1	3
680-120839-2	GKM-GSTO-F_01052016_1300 TOTALS	Total/NA	Water	245.1	4
680-120839-5	GSTO-C_122315_1300 TOTALS	Total/NA	Water	245.1	5
680-120839-7	GKM_GSTO-C_010516_1205 TOTALS	Total/NA	Water	245.1	6
680-120839-9	GSTI_122315_1415 TOTALS	Total/NA	Water	245.1	7
680-120839-10	GSTI_122315_1415 FILTERED	Dissolved	Water	245.1	8
680-120839-11	A72_010816_1230 TOTALS	Total/NA	Water	245.1	9
680-120839-11 MS	A72_010816_1230 TOTALS	Total/NA	Water	245.1	10
680-120839-11 MSD	A72_010816_1230 TOTALS	Total/NA	Water	245.1	11
680-120839-12	A72_010816_1230 FILTERED	Dissolved	Water	245.1	
LCS 680-417991/15-A	Lab Control Sample	Total/NA	Water	245.1	
MB 680-417991/13-A	Method Blank	Total/NA	Water	245.1	

Prep Batch: 418000

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-120839-1	GSTO-F_122315_1230 TOTALS	Total/NA	Water	200	1
680-120839-2	GKM-GSTO-F_01052016_1300 TOTALS	Total/NA	Water	200	2
680-120839-5	GSTO-C_122315_1300 TOTALS	Total/NA	Water	200	3
680-120839-7	GKM_GSTO-C_010516_1205 TOTALS	Total/NA	Water	200	4
680-120839-9	GSTI_122315_1415 TOTALS	Total/NA	Water	200	5
680-120839-10	GSTI_122315_1415 FILTERED	Dissolved	Water	200	6
680-120839-10 MS	GSTI_122315_1415 FILTERED	Dissolved	Water	200	7
680-120839-10 MSD	GSTI_122315_1415 FILTERED	Dissolved	Water	200	8
680-120839-11	A72_010816_1230 TOTALS	Total/NA	Water	200	9
680-120839-12	A72_010816_1230 FILTERED	Dissolved	Water	200	10
680-120839-12 MS	A72_010816_1230 FILTERED	Dissolved	Water	200	11
680-120839-12 MSD	A72_010816_1230 FILTERED	Dissolved	Water	200	
LCS 680-418000/2-A	Lab Control Sample	Total/NA	Water	200	
MB 680-418000/1-A	Method Blank	Total/NA	Water	200	

Prep Batch: 418001

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-120839-1	GSTO-F_122315_1230 TOTALS	Total/NA	Water	200	1
680-120839-2	GKM-GSTO-F_01052016_1300 TOTALS	Total/NA	Water	200	2
680-120839-5	GSTO-C_122315_1300 TOTALS	Total/NA	Water	200	3
680-120839-7	GKM_GSTO-C_010516_1205 TOTALS	Total/NA	Water	200	4
680-120839-9	GSTI_122315_1415 TOTALS	Total/NA	Water	200	5
680-120839-10	GSTI_122315_1415 FILTERED	Dissolved	Water	200	6
680-120839-10 MS	GSTI_122315_1415 FILTERED	Dissolved	Water	200	7
680-120839-10 MSD	GSTI_122315_1415 FILTERED	Dissolved	Water	200	8
680-120839-11	A72_010816_1230 TOTALS	Total/NA	Water	200	9
680-120839-12	A72_010816_1230 FILTERED	Dissolved	Water	200	10
680-120839-12 MS	A72_010816_1230 FILTERED	Dissolved	Water	200	11
680-120839-12 MSD	A72_010816_1230 FILTERED	Dissolved	Water	200	
LCS 680-418001/2-A	Lab Control Sample	Total/NA	Water	200	
MB 680-418001/1-A	Method Blank	Total/NA	Water	200	

QC Association Summary

Client: Weston Solutions, Inc.

Project/Site: GKM Treatment/Stabilization - Region 8

TestAmerica Job ID: 680-120839-1

Metals (Continued)

Analysis Batch: 418117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-120839-1	GSTO-F_122315_1230 TOTALS	Total/NA	Water	200.8	418000
680-120839-1	GSTO-F_122315_1230 TOTALS	Total/NA	Water	200.8	418000
680-120839-2	GKM-GSTO-F_01052016_1300 TOTALS	Total/NA	Water	200.8	418000
680-120839-2	GKM-GSTO-F_01052016_1300 TOTALS	Total/NA	Water	200.8	418000
680-120839-5	GSTO-C_122315_1300 TOTALS	Total/NA	Water	200.8	418000
680-120839-7	GKM_GSTO-C_010516_1205 TOTALS	Total/NA	Water	200.8	418000
680-120839-9	GSTI_122315_1415 TOTALS	Total/NA	Water	200.8	418000
680-120839-10	GSTI_122315_1415 FILTERED	Dissolved	Water	200.8	418000
680-120839-10 MS	GSTI_122315_1415 FILTERED	Dissolved	Water	200.8	418000
680-120839-10 MSD	GSTI_122315_1415 FILTERED	Dissolved	Water	200.8	418000
680-120839-11	A72_010816_1230 TOTALS	Total/NA	Water	200.8	418000
680-120839-12	A72_010816_1230 FILTERED	Dissolved	Water	200.8	418000
680-120839-12 MS	A72_010816_1230 FILTERED	Dissolved	Water	200.8	418000
680-120839-12 MSD	A72_010816_1230 FILTERED	Dissolved	Water	200.8	418000
LCS 680-418000/2-A	Lab Control Sample	Total/NA	Water	200.8	418000
MB 680-418000/1-A	Method Blank	Total/NA	Water	200.8	418000

Analysis Batch: 418119

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-120839-1	GSTO-F_122315_1230 TOTALS	Total/NA	Water	245.1	417991
680-120839-1 MS	GSTO-F_122315_1230 TOTALS	Total/NA	Water	245.1	417991
680-120839-1 MSD	GSTO-F_122315_1230 TOTALS	Total/NA	Water	245.1	417991
680-120839-2	GKM-GSTO-F_01052016_1300 TOTALS	Total/NA	Water	245.1	417991
680-120839-5	GSTO-C_122315_1300 TOTALS	Total/NA	Water	245.1	417991
680-120839-7	GKM_GSTO-C_010516_1205 TOTALS	Total/NA	Water	245.1	417991
680-120839-9	GSTI_122315_1415 TOTALS	Total/NA	Water	245.1	417991
680-120839-10	GSTI_122315_1415 FILTERED	Dissolved	Water	245.1	417991
680-120839-11	A72_010816_1230 TOTALS	Total/NA	Water	245.1	417991
680-120839-11 MS	A72_010816_1230 TOTALS	Total/NA	Water	245.1	417991
680-120839-11 MSD	A72_010816_1230 TOTALS	Total/NA	Water	245.1	417991
680-120839-12	A72_010816_1230 FILTERED	Dissolved	Water	245.1	417991
LCS 680-417991/15-A	Lab Control Sample	Total/NA	Water	245.1	417991
MB 680-417991/13-A	Method Blank	Total/NA	Water	245.1	417991

Analysis Batch: 418137

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-120839-1	GSTO-F_122315_1230 TOTALS	Total/NA	Water	200.7 Rev 4.4	418001
680-120839-1	GSTO-F_122315_1230 TOTALS	Total/NA	Water	200.7 Rev 4.4	418001
680-120839-2	GKM-GSTO-F_01052016_1300 TOTALS	Total/NA	Water	200.7 Rev 4.4	418001
680-120839-2	GKM-GSTO-F_01052016_1300 TOTALS	Total/NA	Water	200.7 Rev 4.4	418001
680-120839-5	GSTO-C_122315_1300 TOTALS	Total/NA	Water	200.7 Rev 4.4	418001
680-120839-7	GKM_GSTO-C_010516_1205 TOTALS	Total/NA	Water	200.7 Rev 4.4	418001
680-120839-9	GSTI_122315_1415 TOTALS	Total/NA	Water	200.7 Rev 4.4	418001
680-120839-10	GSTI_122315_1415 FILTERED	Dissolved	Water	200.7 Rev 4.4	418001
680-120839-10 MS	GSTI_122315_1415 FILTERED	Dissolved	Water	200.7 Rev 4.4	418001
680-120839-10 MSD	GSTI_122315_1415 FILTERED	Dissolved	Water	200.7 Rev 4.4	418001
680-120839-11	A72_010816_1230 TOTALS	Total/NA	Water	200.7 Rev 4.4	418001
680-120839-12	A72_010816_1230 FILTERED	Dissolved	Water	200.7 Rev 4.4	418001
680-120839-12 MS	A72_010816_1230 FILTERED	Dissolved	Water	200.7 Rev 4.4	418001
680-120839-12 MSD	A72_010816_1230 FILTERED	Dissolved	Water	200.7 Rev 4.4	418001
LCS 680-418001/2-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	418001

TestAmerica Savannah

QC Association Summary

Client: Weston Solutions, Inc.

Project/Site: GKM Treatment/Stabilization - Region 8

TestAmerica Job ID: 680-120839-1

Metals (Continued)

Analysis Batch: 418137 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-418001/1-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	418001

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Lab Chronicle

Client: Weston Solutions, Inc.

Project/Site: GKM Treatment/Stabilization - Region 8

TestAmerica Job ID: 680-120839-1

Client Sample ID: GSTO-F_122315_1230 TOTALS

Lab Sample ID: 680-120839-1

Matrix: Water

Date Collected: 12/23/15 12:30

Date Received: 01/13/16 09:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200			50 mL	50 mL	418001	01/13/16 12:46	BJB	TAL SAV
Total/NA	Analysis	200.7 Rev 4.4		1	50 mL	50 mL	418137	01/13/16 17:43	BCB	TAL SAV
		Instrument ID: ICPE								
Total/NA	Prep	200			50 mL	50 mL	418001	01/13/16 12:46	BJB	TAL SAV
Total/NA	Analysis	200.7 Rev 4.4		10	50 mL	50 mL	418137	01/14/16 09:57	BCB	TAL SAV
		Instrument ID: ICPE								
Total/NA	Prep	200			50 mL	50 mL	418000	01/13/16 12:46	BJB	TAL SAV
Total/NA	Analysis	200.8		1	50 mL	50 mL	418117	01/13/16 17:27	BWR	TAL SAV
		Instrument ID: ICPMSC								
Total/NA	Prep	200			50 mL	50 mL	418000	01/13/16 12:46	BJB	TAL SAV
Total/NA	Analysis	200.8		1000	50 mL	50 mL	418117	01/14/16 09:21	BWR	TAL SAV
		Instrument ID: ICPMSC								
Total/NA	Prep	245.1			50 mL	50 mL	417991	01/13/16 12:08	JKL	TAL SAV
Total/NA	Analysis	245.1		1	50 mL	50 mL	418119	01/13/16 16:27	JKL	TAL SAV
		Instrument ID: LEEMAN2								

Client Sample ID: GKM-GSTO-F_01052016_1300 TOTALS

Lab Sample ID: 680-120839-2

Matrix: Water

Date Collected: 01/05/16 13:00

Date Received: 01/13/16 09:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200			50 mL	50 mL	418001	01/13/16 12:46	BJB	TAL SAV
Total/NA	Analysis	200.7 Rev 4.4		1	50 mL	50 mL	418137	01/13/16 17:48	BCB	TAL SAV
		Instrument ID: ICPE								
Total/NA	Prep	200			50 mL	50 mL	418001	01/13/16 12:46	BJB	TAL SAV
Total/NA	Analysis	200.7 Rev 4.4		10	50 mL	50 mL	418137	01/14/16 10:02	BCB	TAL SAV
		Instrument ID: ICPE								
Total/NA	Prep	200			50 mL	50 mL	418000	01/13/16 12:46	BJB	TAL SAV
Total/NA	Analysis	200.8		1	50 mL	50 mL	418117	01/13/16 17:31	BWR	TAL SAV
		Instrument ID: ICPMSC								
Total/NA	Prep	200			50 mL	50 mL	418000	01/13/16 12:46	BJB	TAL SAV
Total/NA	Analysis	200.8		1000	50 mL	50 mL	418117	01/14/16 09:25	BWR	TAL SAV
		Instrument ID: ICPMSC								
Total/NA	Prep	245.1			50 mL	50 mL	417991	01/13/16 12:08	JKL	TAL SAV
Total/NA	Analysis	245.1		1	50 mL	50 mL	418119	01/13/16 16:36	JKL	TAL SAV
		Instrument ID: LEEMAN2								

Client Sample ID: GSTO-C_122315_1300 TOTALS

Lab Sample ID: 680-120839-5

Matrix: Water

Date Collected: 12/23/15 13:00

Date Received: 01/13/16 09:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200			50 mL	50 mL	418001	01/13/16 12:46	BJB	TAL SAV

TestAmerica Savannah

Lab Chronicle

Client: Weston Solutions, Inc.

Project/Site: GKM Treatment/Stabilization - Region 8

TestAmerica Job ID: 680-120839-1

Client Sample ID: GSTO-C_122315_1300 TOTALS

Date Collected: 12/23/15 13:00

Date Received: 01/13/16 09:43

Lab Sample ID: 680-120839-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	200.7 Rev 4.4		1	50 mL	50 mL	418137	01/13/16 18:11	BCB	TAL SAV
		Instrument ID: ICPE								
Total/NA	Prep	200			50 mL	50 mL	418000	01/13/16 12:46	BJB	TAL SAV
Total/NA	Analysis	200.8		1	50 mL	50 mL	418117	01/13/16 17:43	BWR	TAL SAV
		Instrument ID: ICPMSC								
Total/NA	Prep	245.1			50 mL	50 mL	417991	01/13/16 12:08	JKL	TAL SAV
Total/NA	Analysis	245.1		1	50 mL	50 mL	418119	01/13/16 16:46	JKL	TAL SAV
		Instrument ID: LEEMAN2								

Client Sample ID: GKM_GSTO-C_010516_1205 TOTALS

Date Collected: 01/05/16 12:05

Date Received: 01/13/16 09:43

Lab Sample ID: 680-120839-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200			50 mL	50 mL	418001	01/13/16 12:46	BJB	TAL SAV
Total/NA	Analysis	200.7 Rev 4.4		1	50 mL	50 mL	418137	01/13/16 18:20	BCB	TAL SAV
		Instrument ID: ICPE								
Total/NA	Prep	200			50 mL	50 mL	418000	01/13/16 12:46	BJB	TAL SAV
Total/NA	Analysis	200.8		1	50 mL	50 mL	418117	01/13/16 17:51	BWR	TAL SAV
		Instrument ID: ICPMSC								
Total/NA	Prep	245.1			50 mL	50 mL	417991	01/13/16 12:08	JKL	TAL SAV
Total/NA	Analysis	245.1		1	50 mL	50 mL	418119	01/13/16 16:58	JKL	TAL SAV
		Instrument ID: LEEMAN2								

Client Sample ID: GSTI_122315_1415 TOTALS

Date Collected: 12/23/15 14:15

Date Received: 01/13/16 09:43

Lab Sample ID: 680-120839-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200			50 mL	50 mL	418001	01/13/16 12:46	BJB	TAL SAV
Total/NA	Analysis	200.7 Rev 4.4		1	50 mL	50 mL	418137	01/13/16 18:29	BCB	TAL SAV
		Instrument ID: ICPE								
Total/NA	Prep	200			50 mL	50 mL	418000	01/13/16 12:46	BJB	TAL SAV
Total/NA	Analysis	200.8		1	50 mL	50 mL	418117	01/13/16 17:59	BWR	TAL SAV
		Instrument ID: ICPMSC								
Total/NA	Prep	245.1			50 mL	50 mL	417991	01/13/16 12:08	JKL	TAL SAV
Total/NA	Analysis	245.1		1	50 mL	50 mL	418119	01/13/16 17:04	JKL	TAL SAV
		Instrument ID: LEEMAN2								

TestAmerica Savannah

Lab Chronicle

Client: Weston Solutions, Inc.

Project/Site: GKM Treatment/Stabilization - Region 8

TestAmerica Job ID: 680-120839-1

Client Sample ID: GSTI_122315_1415 FILTERED

Lab Sample ID: 680-120839-10

Matrix: Water

Date Collected: 12/23/15 14:15

Date Received: 01/13/16 09:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	200			50 mL	50 mL	418001	01/13/16 12:46	BJB	TAL SAV
Dissolved	Analysis	200.7 Rev 4.4 Instrument ID: ICPE		1	50 mL	50 mL	418137	01/13/16 18:38	BCB	TAL SAV
Dissolved	Prep	200			50 mL	50 mL	418000	01/13/16 12:46	BJB	TAL SAV
Dissolved	Analysis	200.8 Instrument ID: ICPMSC		1	50 mL	50 mL	418117	01/13/16 17:00	BWR	TAL SAV
Dissolved	Prep	245.1			50 mL	50 mL	417991	01/13/16 12:08	JKL	TAL SAV
Dissolved	Analysis	245.1 Instrument ID: LEEMAN2		1	50 mL	50 mL	418119	01/13/16 17:07	JKL	TAL SAV

Client Sample ID: A72_010816_1230 TOTALS

Lab Sample ID: 680-120839-11

Matrix: Water

Date Collected: 01/08/16 12:30

Date Received: 01/13/16 09:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200			50 mL	50 mL	418001	01/13/16 12:46	BJB	TAL SAV
Total/NA	Analysis	200.7 Rev 4.4 Instrument ID: ICPE		1	50 mL	50 mL	418137	01/13/16 18:34	BCB	TAL SAV
Total/NA	Prep	200			50 mL	50 mL	418000	01/13/16 12:46	BJB	TAL SAV
Total/NA	Analysis	200.8 Instrument ID: ICPMSC		1	50 mL	50 mL	418117	01/13/16 18:02	BWR	TAL SAV
Total/NA	Prep	245.1			50 mL	50 mL	417991	01/13/16 12:08	JKL	TAL SAV
Total/NA	Analysis	245.1 Instrument ID: LEEMAN2		1	50 mL	50 mL	418119	01/13/16 17:10	JKL	TAL SAV

Client Sample ID: A72_010816_1230 FILTERED

Lab Sample ID: 680-120839-12

Matrix: Water

Date Collected: 01/08/16 12:30

Date Received: 01/13/16 09:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	200			50 mL	50 mL	418001	01/13/16 12:46	BJB	TAL SAV
Dissolved	Analysis	200.7 Rev 4.4 Instrument ID: ICPE		1	50 mL	50 mL	418137	01/13/16 19:01	BCB	TAL SAV
Dissolved	Prep	200			50 mL	50 mL	418000	01/13/16 12:46	BJB	TAL SAV
Dissolved	Analysis	200.8 Instrument ID: ICPMSC		1	50 mL	50 mL	418117	01/13/16 18:14	BWR	TAL SAV
Dissolved	Prep	245.1			50 mL	50 mL	417991	01/13/16 12:08	JKL	TAL SAV
Dissolved	Analysis	245.1 Instrument ID: LEEMAN2		1	50 mL	50 mL	418119	01/13/16 17:19	JKL	TAL SAV

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

TestAmerica Savannah

TestAmerica Savannah

5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 35

Chain of Custody Record

Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

TestAmerica Savannah

5102 LaRoche Avenue

Savannah, GA 31404

Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

TestAmerica

THE LEADERS IN ENVIRONMENTAL TESTING

Client Information		Sampler Lisa Richardson Phone (970)269-5363		Lab PM Hoffman, Sheila B Email sheila.hoffman@testamericainc.com		Carrier Tracking No(s): COC No 680-58748-29693.3	
Client Contact: Moira Phynoda Company: Weston Solutions, Inc.						Page 3 of 4 Job #	
Analysis Requested Preservation Codes: A - HCl M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SiO3 F - NaOH R - Na2S2O3 G - Anchior S - H2SO4 H - Ascorbic Acid T - TSP Dodecylhydrate I - Ice U - Acetone J - DI Water V - MCA K - EDTA W - ph 4.5 L - EDA Z - other specify Other:							
Total Number of Containers: Special Instructions/Note:							
14-35 Garrison Street Suite 100 City Lakewood State, Zip: CO, 80215 Phone: 303-729-6112(Tel) Email: moira.phynoda@westonsolutions.com Project Name: Gold King Mine - Region 8 (LTM) Site: GSTI							
Due Date Requested: PAT Requested (days): 24 hrs.							
PO #: 0089320 WO #: 20408 016.01.02285.00 Project #: 68015358 SSOW#:							
Sample Identification Sample Date Sample Time Sample Type (C=Comp, G=grab) Sample Matrix (Water, Sewage, Comestical, Brine, Aqueous, Au)							
6/23/15 14:15 G Water D 6/23/15 14:15 G Water Y D							
2007, 2008, 2451 2007, 2008, 200.8							
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify)							
Empty Kit Relinquished by: Relinquished by: Relinquished by: Relinquished by: Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No :							
Date/Time: 07/21/16 10:21 Company Received By: John Duff Date/Time: 1-13-16 9:43 Company Date/Time: Received By: Date/Time: Company Date/Time: Received By: Date/Time: Company							
Cooler Temperatures(s) °C and Other Remarks: 1080-120839							
Sample Disposal / A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For 1 Months Special Instructions/QC Requirements: 1-1060-CF Method of Shipment:							

TestAmerica Savannah

5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Fax (912) 352-0165

Chain of Custody Record

Client Information		Sampler		Lab P/M:		Carrier Tracking No(s):		CCG No:		
Client Contact:	Maira Pryhoda	Phone	(912) 729-5363	Hoffman, Sheila B	E-Mail:	sheila.hoffman@testamericainc.com	Page 4 of 4	Job #:		
Analysis Requested										
Preservation Codes: A - HCl M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2CO3 E - NaHSO4 Q - Na2SO3 F - NaOH R - Na2SSO3 G - Anchor S - H2SO4 H - Ascorbic Acid T - TSP Dodecylhydrate I - Ice U - Acetone J - DI Water V - MCA K - EDTA W - pH 4-5 L - EDA Z - other (specify) Other:										
Cust. Number & lot control numbers: 200.7, 200.8, 245.1 200.7, 200.8, 200.8										
Special Instructions/Note:										
Sample Identification										
Address:	1425 Garrison Street Suite 100	Date Requested:		Sample Date	Sample Time	Sample Type (C=comp, G=urab)	Sample Matrix (H=water, S=solid, O=organic, T=tissue, A=air)	Preservation Code:		
City:	Lakewood	TAT Requested (days):	24 hours							
State, Zip:	CO, 80215	PO #:	0089320							
Phone:	303-729-6112(Tel)	WO #:	20408.016.001.0285.00							
Email:	maira.pryhoda@westonsolutions.com	Project #:	66015358							
Project Name:	Gold King Mine - Region 8 (LTM)	SSOW#:	A72							
Site:										
Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison A <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify)										
Empty Kit Relinquished by:	Date/Time:		Date:	Time:		Received By:		Method of Shipment:		
	01/12/16		10:24	Company		Company		Company		
Relinquished by:	Date/Time:									
Relinquished by:	Date/Time:									
Custody Seals Intact:	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:							
Δ Yes	Δ No									

Login Sample Receipt Checklist

Client: Weston Solutions, Inc.

Job Number: 680-120839-1

Login Number: 120839

List Source: TestAmerica Savannah

List Number: 1

Creator: Daughtry, Beth A

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Samples 3,4,6 & 8 - rec'd Nitric containers, client has put these on hold
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: Weston Solutions, Inc.

Project/Site: GKM Treatment/Stabilization - Region 8

TestAmerica Job ID: 680-120839-1

Laboratory: TestAmerica Savannah

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Colorado	State Program	8	N/A	12-31-16

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